

4

RAW SEQUENCE LISTING

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Application Serial Number: 10/524,750
Source: PCT
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PATENT APPLICATION: US/10/524,750

DATE: 08/22/2005
TIME: 17:10:26

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3 <110> APPLICANT: Martin, Gregory B.
 4 Abramovitch, Robert B.
 5 Lin, Nai-Chun
 6 Kim, Young-Jin
 8 <120> TITLE OF INVENTION: BACTERIAL EFFECTOR PROTEINS WHICH INHIBIT PROGRAMMED
 9 CELL DEATH
 11 <130> FILE REFERENCE: 3213/104
 13 <140> CURRENT APPLICATION NUMBER: 10/524,750
 C--> 14 <141> CURRENT FILING DATE: 2005-02-15
 16 <150> PRIOR APPLICATION NUMBER: 60/404,339
 17 <151> PRIOR FILING DATE: 2002-08-16
 19 <150> PRIOR APPLICATION NUMBER: 60/425,842
 20 <151> PRIOR FILING DATE: 2002-11-12
 22 <150> PRIOR APPLICATION NUMBER: PCT/US03/25247
 23 <151> PRIOR FILING DATE: 2003-08-16
 25 <160> NUMBER OF SEQ ID NOS: 54
 27 <170> SOFTWARE: PatentIn Ver. 2.1
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 30 <211> LENGTH: 1662
 31 <212> TYPE: DNA
 32 <213> ORGANISM: Pseudomonas syringae
 34 <400> SEQUENCE: 1
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(pg-6)

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 58 ctgggtttta,aggatgcggc agatcatcac acggatgacg tgacgcactg tcttttggc 1440
 59 ggagaattgt cgctgagtaa tccggatca caggtgatcg gtttggcggg taatccgacg 1500
 60 gacacgtcgc agccttacag ccaagaggaa aataaggacc tggcgttcat ggatatgaaa 1560
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 66 <211> LENGTH: 553
 67 <212> TYPE: PRT
 68 <213> ORGANISM: *Pseudomonas syringae*
 70 <400> SEQUENCE: 2
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 74 His Thr Asp Pro Glu Pro Val Ser Gly Gln Ala His Gly Ser Gly Ser
 75 20 25 30
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 78 35 40 45
 80 Thr Pro Pro Ser Asn Ala Pro Ala Pro Pro Pro Thr Gly Arg Glu Arg
 81 50 55 60
 83 Leu Ser Arg Ser Thr Ala Leu Ser Arg Gln Thr Arg Glu Trp Leu Glu
 84 65 70 75 80
 86 Gln Gly Met Pro Thr Ala Glu Asp Ala Ser Val Arg Arg Arg Pro Gln
 87 85 90 95
 89 Val Thr Ala Asp Ala Ala Thr Pro Arg Ala Glu Ala Arg Arg Thr Pro
 90 100 105 110
 92 Glu Ala Thr Ala Asp Ala Ser Ala Pro Arg Arg Gly Ala Val Ala His
 93 115 120 125
 95 Ala Asn Ser Ile Val Gln Gln Leu Val Ser Glu Gly Ala Asp Ile Ser
 96 130 135 140
 98 His Thr Arg Asn Met Leu Arg Asn Ala Met Asn Gly Asp Ala Val Ala
 99 145 150 155 160
 101 Phe Ser Arg Val Glu Gln Asn Ile Phe Arg Gln His Phe Pro Asn Met
 102 165 170 175
 104 Pro Met His Gly Ile Ser Arg Asp Ser Glu Leu Ala Ile Glu Leu Arg
 105 180 185 190
 107 Gly Ala Leu Arg Arg Ala Val His Gln Gln Ala Ala Ser Ala Pro Val
 108 195 200 205
 110 Arg Ser Pro Thr Pro Thr Pro Ala Ser Pro Ala Ala Ser Ser Ser Gly
 111 210 215 220
 113 Ser Ser Gln Arg Ser Leu Phe Gly Arg Phe Ala Arg Leu Met Ala Pro
 114 225 230 235 240
 116 Asn Gln Gly Arg Ser Ser Asn Thr Ala Ala Ser Gln Thr Pro Val Asp
 117 245 250 255
 119 Arg Ser Pro Pro Arg Val Asn Gln Arg Pro Ile Arg Val Asp Arg Ala
 120 260 265 270
 122 Ala Met Arg Asn Arg Gly Asn Asp Glu Ala Asp Ala Ala Leu Arg Gly
 123 275 280 285
 125 Leu Val Gln Gln Gly Val Asn Leu Glu His Leu Arg Thr Ala Leu Glu

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132	325	330	335
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135	340	345	350
137	Gly Leu Arg Pro Ser Ala Glu Arg Ala Pro Arg Pro Ala Val Pro Val		
138	355	360	365
140	Ala Pro Ala Thr Ala Ser Arg Arg Pro Asp Gly Thr Arg Ala Thr Arg		
141	370	375	380
143	Leu Arg Val Met Pro Glu Arg Glu Asp Tyr Glu Asn Asn Val Ala Tyr		
144	385	390	395
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147	405	410	415
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158	Asp Ala Ala Asp His His Thr Asp Asp Val Thr His Cys Leu Phe Gly		
159	465	470	475
161	Gly Glu Leu Ser Leu Ser Asn Pro Asp Gln Gln Val Ile Gly Leu Ala		480
162	485	490	495
164	Gly Asn Pro Thr Asp Thr Ser Gln Pro Tyr Ser Gln Glu Gly Asn Lys		
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167	Asp Leu Ala Phe Met Asp Met Lys Lys Leu Ala Gln Phe Leu Ala Gly		
168	515	520	525
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187	acggcggagg ctggagtgcc catcaggcgc caggagtctg ccgaggctgc agcgc当地 cag 300		
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191	aacaccatga ttgacaatgc catgc当地 cgc当地 cacgc当地 atag ctctt当地 tca当地 540		
192	cagagtattt tgatcgagca tttccctc当地 ctgctagc当地 ggtaactcat tagtggctca 600		
193	gagtc当地 gcta cgc当地 gttcc当地 tgc当地 gctc当地 cgtc当地 gggagg ttc当地 gcca当地 aaca当地 ggaggc当地 gtca 660		

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 196 ggggtttagtca cgcctaatca gagacgtccg tcgagcgctt cgaacgcgtc tgctctcaa 840
 197 aggccctgttag acagaagccc gccacgcgtta aaccaggtac ccacaggcgc taacagggtt 900
 198 gtgatgcgtta atcatgttaa taacgaggcc gacgcccgc tgcaaggatt ggctcagcag 960
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 227 35 40 45
 229 Pro Ala Ser Gln Ala Arg Asp Arg Arg Glu Met Leu Leu Arg Ala Arg
 230 50 55 60
 232 Pro Leu Ser Arg Gln Thr Arg Glu Trp Val Ala Gln Gly Met Pro Pro
 233 65 70 75 80
 235 Thr Ala Glu Ala Gly Val Pro Ile Arg Pro Gln Glu Ser Ala Glu Ala
 236 85 90 95
 238 Ala Ala Pro Gln Ala Arg Ala Glu Glu Arg His Thr Pro Glu Ala Asp
 239 100 105 110
 241 Ala Ala Ala Ser His Val Arg Thr Glu Gly Gly Arg Thr Pro Gln Ala
 242 115 120 125
 244 Leu Ala Gly Thr Ser Pro Arg His Thr Gly Ala Val Pro His Ala Asn
 245 130 135 140
 247 Arg Ile Val Gln Gln Leu Val Asp Ala Gly Ala Asp Leu Ala Gly Ile
 248 145 150 155 160
 250 Asn Thr Met Ile Asp Asn Ala Met Arg Arg His Ala Ile Ala Leu Pro
 251 165 170 175
 253 Ser Arg Thr Val Gln Ser Ile Leu Ile Glu His Phe Pro His Leu Leu
 254 180 185 190
 256 Ala Gly Glu Leu Ile Ser Gly Ser Glu Leu Ala Thr Ala Phe Arg Ala
 257 195 200 205

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Input Set : A:\1041.app
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259 Ala Leu Arg Arg Glu Val Arg Gln Gln Glu Ala Ser Ala Pro Pro Arg
 260 210 215 220
 262 Thr Ala Ala Arg Ser Ser Val Arg Thr Pro Glu Arg Ser Thr Val Pro
 263 225 230 235 240
 265 Pro Thr Ser Thr Glu Ser Ser Ser Gly Ser Asn Gln Arg Thr Leu Leu
 266 245 250 255
 268 Gly Arg Phe Ala Gly Leu Met Thr Pro Asn Gln Arg Arg Pro Ser Ser
 269 260 265 270
 271 Ala Ser Asn Ala Ser Ala Ser Gln Arg Pro Val Asp Arg Ser Pro Pro
 272 275 280 285
 274 Arg Val Asn Gln Val Pro Thr Gly Ala Asn Arg Val Val Met Arg Asn
 275 290 295 300
 277 His Gly Asn Asn Glu Ala Asp Ala Ala Leu Gln Gly Leu Ala Gln Gln
 278 305 310 315 320
 280 Gly Val Asp Met Glu Asp Leu Arg Ala Ala Leu Glu Arg His Ile Leu
 281 325 330 335
 283 His Arg Arg Pro Ile Pro Met Asp Ile Ala Tyr Ala Leu Gln Gly Val
 284 340 345 350
 286 Gly Ile Ala Pro Ser Ile Asp Thr Gly Glu Ser Leu Met Glu Asn Pro
 287 355 360 365
 289 Leu Met Asn Leu Ser Val Ala Leu His Arg Ala Leu Gly Pro Arg Pro
 290 370 375 380
 292 Ala Arg Ala Gln Ala Pro Arg Pro Ala Val Pro Val Ala Pro Ala Thr
 293 385 390 395 400
 295 Val Ser Arg Arg Pro Asp Ser Ala Arg Ala Thr Arg Leu Gln Val Ile
 296 405 410 415
 298 Pro Ala Arg Glu Asp Tyr Glu Asn Asn Val Ala Tyr Gly Val Arg Leu
 299 420 425 430
 301 Leu Ser Leu Asn Pro Gly Ala Gly Val Arg Glu Thr Val Ala Ala Phe
 302 435 440 445
 304 Val Asn Asn Arg Tyr Glu Arg Gln Ala Val Val Ala Asp Ile Arg Ala
 305 450 455 460
 307 Ala Leu Asn Leu Ser Lys Gln Phe Asn Lys Leu Arg Thr Val Ser Lys
 308 465 470 475 480
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 311 485 490 495
 313 Pro Asp Asp Ala Thr Gln Cys Leu Phe Gly Glu Leu Ser Leu Thr
 314 500 505 510
 316 Ser Ser Asp Gln Gln Val Ile Gly Leu Ala Gly Lys Ala Thr Asp Met
 317 515 520 525
 319 Ser Glu Ser Tyr Ser Arg Glu Ala Asn Lys Asp Leu Val Phe Met Asp
 320 530 535 540
 322 Met Lys Lys Leu Ala Gln Phe Leu Ala Gly Lys Pro Glu His Pro Met
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 326 565 570 575
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 332 <210> SEQ ID NO: 5
 333 <211> LENGTH: 1740

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Input Set : A:\1041.app
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:352
L:884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
M:341 Repeated in SeqNo=24
L:1253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:1334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
M:341 Repeated in SeqNo=48
L:1376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:1400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:1419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:1609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
M:341 Repeated in SeqNo=54